

NC/QC/110V-Y14/2021-22/GSB1

Date: 04-05-2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	96.15	80-100
26.50	82.55	55-90
9.50	57.60	35-65
4.75	41.25	25-50
2.36	17.90	10-20
0.85	6.85	2-10
0.425	3.45	0-5

The result of the materials tested meets the standards and hence can be used for the work
Bharath Nagar 1st Main Road Ch-0.00 to 30.00m

Page No. 1/2,





Date: 04-05-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.42 %	Not more than 2.0 %
2.	Liquid Limit, %	18.36	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.54	-----
5.	Aggregate Impact Value, %	28.86	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work
Bharath Nagar 1st Main Road Ch-0.00 to 30.00m

Handwritten signature and stamp:
Bharath Nagar
AE
ಶ್ರೀಮತಿ ಸುಷ್ಮಿತಾ ಸುಬ್ರಹ್ಮಣ್ಯ
ಯೋಗೇಶ್ವರಿ ಸುಬ್ರಹ್ಮಣ್ಯ
ಇ.ಎಂ.ಸಿ. ಕೆ.ಎಂ.ಸಿ.ಎಂ.ಸಿ.





NC/QC/110V-Y14/2021-22/GSB2

Date: 06-05-2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	100.00	100
53.00	94.15	80-100
26.50	80.25	55-90
9.50	57.35	35-65
4.75	42.80	25-50
2.36	18.05	10-20
0.85	7.65	2-10
0.425	3.90	0-5

The result of the materials tested meets the standards and hence can be used for the work
1st A Cross Road Ch:30.00m to 49.20m

Page No. 1/2,



Signature
AE
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NC/QC/110V-Y14/2021-22/CE1

Date: 11-05-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.86 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	1.94 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.45 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
2nd Cross Road Ch:0.00 to 30.00m

Page No. 1/1,

Signature
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ಇ.ಇ.ಎಂ.ಡಿ. ಸಂಪನ್ಮೂಲ



NC/OC/110V-Y14/2021-22/CB1

Date: 25-05-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22.

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	18-05-22	25-05-22	07	22500	515	22.89	23.41
	002	“	“	“	“	540	24.00	
	003	“	“	“	“	525	23.33	

The result of the materials tested meets the standards and hence can be used for the work.
5th Cross Road Ch 0.00 to 30.00m

Page No. 1/1,





NC/QC/110V-Y14/2021-22/CB2

Date: 25-05-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength)

{Project* Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	18-05-22	25-05-22	07	22500	530	23.56	23.70
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

The result of the materials tested meets the standards and hence can be used for the work
Bharath Nagar 1st Main Road Ch.30.00m to 60.00m

Signature
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NC/QC/110V-Y14/2021-22/CB7

Date: 30-05-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

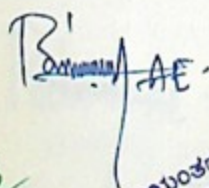
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

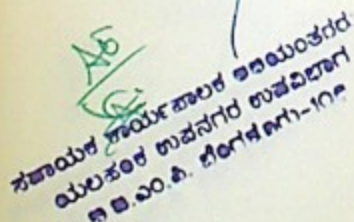
Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	23-05-22	30-05-22	07	22500	520	23.11	23.63
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	545	24.22	

The result of the materials tested meets the standards and hence can be used for the work.
5th Cross Road Ch:0.00 to 30.00m


 Assistant Executive Engineer
 Yelahanka Satellite Town Sub Division
 BBMP, Bangalore

Page No. 1/1,




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NC/QC/110V-Y14/2021-22/CB9

Date: 30-05-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength)

{Project* Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	23-05-22	30-05-22	07	22500	525	23.33	23.56
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	535	23.78	

The result of the materials tested meets the standards and hence can be used for the work.
A M S Layout 2nd Cross Road Ch 11.10m to 41.10m

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NC/QC/110V-Y14/2021-22/CB3A

Date: 16-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14). }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	19-05-22	16-06-22	28	22500	730	32.44	32.15
	002	"	"	"	"	725	32.22	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.

1st Cross Road Ch:0.00 to 30.00m

Page No. 1/1,



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NC/QC/I10V-Y14/2021-22/CB5A

Date: 18-06-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M30

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	21-05-22	18-06-22	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work.
3rd Cross Road Ch:30.00m to 48.90m

Signature AE.

Page No. 1/1,



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ಯೋಜನಾ ಮತ್ತು ನಿರ್ಮಾಣ
ಇ.ಸಿ.ಎಂ.ಸಿ. ನಿರ್ದೇಶನ-10ಎ



Date: 06-06-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Water absorption, %	0.41 %	Not more than 2.0 %
2.	Liquid Limit, %	18.56	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.49	-----
5.	Aggregate Impact Value, %	28.14	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work
Tomra Sorting Indian Pvt.Ltd Ch. 0.00m to 30.00m

Signature
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Page No. 2/2

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ಯು.ಎಂ.ಸಿ. ಉಪನಗರ ಉಪವಿಭಾಗ,
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NC/QC/110V-Y14/2021-22/W3

Date: 17-06-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project* Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	95.40	95-100
26.50	---	-
22.40	72.15	60-80
11.20	54.90	40-60
4.75	32.65	25-40
2.36	23.95	15-30
0.600	18.30	8-22
0.075	4.05	0-5

The result of the materials tested meets the standards and hence can be used for the work
Muneshwara Layout Main Road From Subhash Chandra Bose Road Ch: 34.30m to 64.30m

Page No. 1/2,

Signature
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Date: 17-06-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.63%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.59 %	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work
Muneshwara Layout Main Road From Subhash Chandra Bose Road Ch: 34.30m to 64.30m

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Page No. 2/2



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ಯುಕ್ತ ಸಹಕಾರಿ ಸಂಘದ ಅಧ್ಯಕ್ಷರು,
ಇ.ಎಂ.ಎ. ಕೋಡು-106



NC/QC/110V-Y14/2021-22/W7

Date: 27-06-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.35	95-100
26.50	---	-
22.40	70.15	60-80
11.20	56.10	40-60
4.75	32.45	25-40
2.36	24.70	15-30
0.600	18.05	8-22
0.075	3.65	0-5

The result of the materials tested meets the standards and hence can be used for the work
Cross Road 3 From Veerasagara Lake Road Ch: 0.00m to 30.00m

Handwritten signature and text in Kannada:
ಶಾಂತಾ ಮಲ್ಲಿಕಾರ್ಜುನ ಅಯ್ಯಪ್ಪ
ಅಧಿಕಾರಿ ಮಹೋದಯ ಸಹಾಯಕಿ
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Page No. 1/2,





Date: 28-06-2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.16%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.39 %	Not more than 35.0 %
3.	Water absorption, %	0.42%	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work
2nd Main Road AMS Layout From Unnikrishnan Road Ch: 0.00m to 6.00m

B. M. M. A. E.

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ಮಾಹಿತಿ ಉಪಯುಕ್ತವಾದ
ಮಾಹಿತಿ ಉಪಯುಕ್ತವಾದ-100

Page No. 2/2





Date: 04-07-2022

TABLE 1.2

Sl No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS 383-1970 & M o R T H Specification, V Revision -2013.
	Aggregate Impact Value	26.59%	Not more than 30 00 %
	Combined Flakiness and Elongation index, %	28.36%	Not more than 35 0 %
	Water absorption, %	0.42 %	Not more than 2 0 %
	Plasticity Index, %	NP	Not more than 6.0 %

The result of the materials tested meets the standards and hence can be used for the work
22nd Main Road Ch: 30.00m to 60.00m

(Signature)
AE.



Page No. 2/2

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NC/QC/110V-Y14/2021-22/DBM4

Date: 13-07-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample
{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

B. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 4.53 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	97.45	90-100
19.0	83.55	71-95
13.20	70.25	56-80
4.75	46.10	38-54
2.36	34.80	28-42
0.300	17.25	7-21
0.075	5.60	2-8

The result of the materials tested meets the standards and hence can be used for the work
Go Go International opp Road Ch: 0.00m to 30.00m

Signature
AE

Page No. 1/1



Handwritten notes in Kannada:
ಸಾಮಾನ್ಯ ಕಾರ್ಯಾಚರಣೆ ಮತ್ತು
ಯಂತ್ರಗಳ ಉಪಯೋಗದಿಂದ
ಪ್ರತಿ 100 ಗ್ರಾಂ. ದ್ರವ್ಯವು 100

NC/QC/110V-Y14/2021-22/DBM5

Date: 14-07-2022

1. TEST REPORT ON BITUMINOUS MIXES:

(BITUMEN EXTRACTION TEST & GRADATION TEST)
determine the percentage of bitumen and gradation

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project* Restoration and Improvement of Sainagara Rest Cont. Phase I}

(Project* Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su

Ref.: Material testing/PMC/21-22.

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

C. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	94.25	90-100
19.0	80.15	71-95
13.20	73.85	56-80
4.75	46.70	38-54
2.36	32.05	28-42
0.300	18.55	7-21
0.075	6.10	2-8

The result of the materials tested meets the standards and hence can be used for the work
BUR Ground of Institute Beside Road Ch: 0.00m to 30.00m

Page No. 1/1



ಶೇಷಯಶ್ವರ ಕಾರ್ಯಾಲಯದ ಅಧ್ಯಕ್ಷರು
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ಕೆ.ಕೆ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-100



NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/110V-Y14/2021-22/DS6

Date: 18-07-2022

1. TEST REPORT ON BITUMINOUS MIXES : (STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1260	900
2	Marshall Flow at 60°C, mm.	3.52	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Cross Road I From Veerasagara Lake Road Ch: 0.00m to 30.00m

Signature
AE.

Page No. 1/1



Handwritten notes in Kannada:
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ಯು.ಪಿ.ಎಂ.ಸಿ. ಬೆಂಗಳೂರು-10



NC/QC/110V-Y14/2021-22/DBM7

Date: 19-07-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample
{Project*: Restoration and Improvement of Samagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

D. Type of Construction : Dense Graded Bituminous Macadam.

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 4.52 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	100	100
26.5	98.25	90-100
19.0	84.15	71-95
13.20	72.65	56-80
4.75	45.10	38-54
2.36	36.55	28-42
0.300	18.95	7-21
0.075	5.45	2-8

The result of the materials tested meets the standards and hence can be used for the work
Sai Nilaya House Road Ch: 0.00m to 30.00m

Signature
AE

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*ಶಾಖಾ ಮತ್ತು ಸಂಪನ್ಮೂಲ ಇಲಾಖೆ
ರಸ್ತೆ ಮತ್ತು ಸಾರ್ವಜನಿಕ ಕಟ್ಟಡಗಳು
ಇಲಾಖೆ, ಬೆಂಗಳೂರು*





NC/QC/110V-Y14/2021-22/BS2

Date: 12-07-2022

1. TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

{Project*} Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14).

Ref: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1352	900
2	Marshall Flow at 60°C, mm.	3.40	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Cross Road 2 Ch. 0.00m to 30.00m

Signature

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ಇತರ ಯಾವುದೇ ಕಾರಣದಿಂದ
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NC/QC/110V-Y14/2021-22/BC5

Date: 20-07-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Restoration and Improvement of Sainagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14) }

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh..

TEST RESULTS

C. Type of Construction : Bituminous Concrete

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 5.41 %

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	100	100
13.2	96.25	90-100
9.5	80.10	70-88
4.75	67.45	53-71
2.36	50.25	42-58
1.18	44.35	34-48
0.600	31.75	26-38
0.300	24.55	18-28
0.150	16.20	12-20
0.075	7.15	4-10

The result of the materials tested meets the standards and hence can be used for the work
1st Main Road Adhithya Nagara From Unnikrishnan Road Ch: 30.00m to 60.00m

Signature

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*ಶಾಖೆಯ ಸಹಾಯಕ ಮುಖ್ಯಸ್ಥರು
ಯು.ಪಿ.ಎಸ್. ಸಂಸ್ಥೆ
20-07-2022*



NC/QC/110V-Y14/2021-22/BS6

Date: 21-07-2022

1. TEST REPORT ON BITUMINOUS MIXES : (STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

[Project*: Restoration and Improvement of Samagara, Best Cont, Bharathnagar and Chandrappa Layout, Hill side meadows layout, subhash Chandra Bose layout and surrounding areas in ward no-03 of Yelahanka New Town Su division (PACKAGE NO-14)]

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

SL No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1356	900
2	Marshall Flow at 60°C, mm.	3.44	20 - 40

The result of the materials tested meets the standards and hence can be used for the work
SLV Enterprises Road From End Ch. 0.00m to 30.00m

(Signature)

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(Signature)
ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರ
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ಬಿ.ಬಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-10